

WHAT IS CLAIMED IS:

1. A transmission data generation method, comprising:  
a fixed block size setting step of setting the size  
of a fixed block based on the overhead;

5 a segment size calculation step of calculating the size  
of a segment for each segment of the contents based on the  
size of the said fixed block;

a segment division step of dividing the contents into  
segments according to the calculated size of said segment;

10 a block division step of dividing said divided segment  
into blocks; and

a meta contents creation step for creating the contents  
into meta contents by adding overhead for each one of said  
divided blocks,

15 wherein the overhead is set for each segment of the  
contents based on the overhead in said fixed block.

2. A transmission data generation method, comprising:  
a fixed block size setting step of setting the size  
of a fixed block based on the overhead;

20 a fixed block playout time calculation step of  
calculating the playout time of said fixed block based on  
the size of said fixed block;

a playout time calculation step of calculating the  
playout time of a segment for each segment of the contents  
25 based on the playout time of said fixed block;

a transmission time calculation step of calculating

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the transmission time of a segment for each segment of the contents based on the calculated playout time of the segment;

a segment division step of dividing the contents into segments according to said calculated transmission time of the segment;

a block division step of dividing said divided segment into blocks; and

a meta contents creation step for creating the contents into meta contents by adding overhead for each one of said divided blocks,

wherein the overhead is set for each segment of the contents based on the overhead in said fixed block.

3. The transmission data generation method according to Claim 2, wherein in said fixed block size setting step, the size of said fixed block is set so that the overhead becomes a small value.

4. The transmission data generation method according to Claim 3, further comprising an variable block setting step of determining the size or playout time of an variable block which cannot be divided by said fixed block and the overhead of the variable block for each segment of the contents when the size of the segment is not an integer multiplication of the size of the fixed block,

wherein when the size of the segment is not an integer multiplication of the size of the fixed block, the overhead for each segment is set based on the overhead in said fixed

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block and the overhead of the variable block of said segment.

5. The transmission data generation method according to Claim 4, further comprising:

5 a fixed block transmission time calculation step of calculating the transmission time of said fixed block based on the playout time of said fixed block;

10 a fixed block count calculation step of calculating the number of fixed blocks included in the segment for each segment of the contents based on the transmission time of said segment and the transmission time of said fixed block; and

15 a total fixed block playout time calculation step of calculating the playout time of all the fixed blocks included in the segment for each segment of the contents based on said calculated number of fixed blocks and the playout time of said fixed block,

20 wherein in said playout time calculation step, the playout time of all the fixed blocks included in said segment is regarded as the playout time of the segment for each segment of the contents if the size of the segment is an integer multiplication of the size of the fixed block, and if the size of the segment is not an integer multiplication of the size of the fixed block, the playout time of the segment is calculated based on the playout time of an variable block of said segment and the playout time of all the fixed blocks included in said segment.

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6. The data generation method according to Claim 5, wherein in said variable block setting step, the product of the playout time of said variable block and the overhead in said variable block is determined for each segment of the contents using the playout time of all the fixed blocks

included in said segment and transmission time of said segment, and the playout time of said variable block and the overhead in said variable block are determined from said product using a predetermined numerical analysis method.

7. A transmission data generation equipment, comprising:  
time calculation means which sets the size of a fixed block based on the overhead, calculates the playout time of the fixed block based on the size of said fixed block, calculates the playout time of a segment for each segment of the contents based on the playout time of said fixed block, and calculates the transmission time of a segment based on the calculated playout time of the segment;

division means which divides the contents into segments according to the transmission time of the segment calculated by said time calculation means and divides said divided segments into blocks; and

meta contents means for converting the contents into meta contents by adding the overhead for each block divided by said division means,

wherein said time calculation means sets the overhead for each segment based on the overhead in said fixed block.

8. The transmission data generation equipment according to Claim 7, wherein said time calculation means sets the size of said fixed block so that the overhead becomes a small value.

5 9. The transmission data generation equipment according to Claim 8, wherein when the size of a segment is not an integer multiplication of the size of the fixed block, said time calculation means determines the playout time of an  
10 and the overhead in the variable block, and sets said overhead for each segment based on the overhead in said fixed block and the overhead in the variable block of said segment.